

Fig. 1

1	MSK-RSNRKFVL---	WVMLILFTPHISLASVLNDHN---	SMYVGIOYKPARQHLSKLLIKESAA---	N-----	58
2	..-----	YAKVFILIC...LV.SL.F.I.N.---	FLKDNIGHF.I.G....GVPRFNRF.VTNNNIRELMSSDEEC		69
3	..-----	Q.LYISFIILSG.L--L.KYVFC-----	MHQNNNIDGS.T.K.QLTTP.FKNFY...TDF-----	DTQEP-	60
4	..-----	YMYNKKHYCYIVTYVITLFF.LL.IE..SALI--G.VEKDLKVS.T.SS....SIF.FRNFS.Q..HP-----	K-----		69
5	..-----	TKKFN..NV--ILTF.LFLF.LK.FTTYA--N.-NTITQKVGL.ISG....SIP.FKNFSVE.ND-----	K-----		62
6	..-----	S-KK..ITIGTVLAS.LS.LSIE.FSAIN--..-HTGNNTSGI.ITG..R.GVS.F.NFSV..TNV-----	D-----		64
7	..-----	SAKK.LFIIGSVL.C.VSYL.TK..SNLN--NI-NNNTKCTGL..SG....TVS.F.NFSL..TYT-----	D-----		65
8	..-----	S-KKN.ITIGATLIHML--L.N..FPETI--N.-NTD-KLSGL.ISG....GIS.F..FSV..IYN-----	D-----		61
9	..-----	NNRKS.FIIGASLLASL...SEA.STGNV--S.-HTYFK-PRL.ISG..R.GVS.F..FSV..TNY-----			64
10	..-----	NKKN..I-IATAL.-YL.SL.SV.FSE.T--NS-SIKKH-SGL.ISG....SVSVF.SFS...TNT-----	I-----		62
11	..-----	NHKSMFLTIGTALI-SL.SL.NV.FSGII--N.-NAN-N-LGI.ISG....SVSVF.NFSV..TNF-----	T-----		62
12	..-----	KKKNQ.ITISTIL.-CL.SLSNA..SNTT--NS-STKKQ-FGL.SG....SVSIF.NFSV..TNF-----	P-----		63
13	..-----	NKKN..FTISTAM.-CL.LL.G..FSETI--N.-SAKKQ-PGL.ISG....SVSVF.NFSV..TNV-----	P-----		63
14	..-----	NYK.IF-VSSALIS.MSIL.YQ.F.DPVTSDNTGINDSREGF.ISVK.N.SIS.FR.FSAE.API-----	GNTSI		71
15	..-----	NCK..F-ITTALALPMS.L.G.L.SEPVQ.DSVS-----GNF.ISGK.M.SAS.FGVFSA..-----	EKNP		61
16	..-----	NCE..F-ITTALTL.MS.L.G..SDPVQ.D.IS-----GNF.ISGK.M.SAS.FGVFSA..-----	ERNT		61
17	..-----	NCK..F-ITTAL.S.MS.L.G..FSDPVQGD.IS-----GNF..SGK.M.SAS.FGMFSA..-----	EKNP		61
18	..-----	NCK..F-ITTTL.S.MS.L.G..FSDAVQND.VG-----GNF.ISGK.V.SVS.FGVFSA.Q-----	ERNT		61
19	..-----	NYK.VF-ITSALIS..SSL.GV.FSDPA-GSGIN-----GNF.ISGK.M.SAS.FGVFSA..-----	ERNT		60
20	..-----	NYK...-VGVALAT.LS.L.DN.FSDA-----NVPEGRKGF...T...VGVPNF.NFSAE.TL-----	PGL		61
21	..-----	RYKDFSN--NIDVIIIGT.VG-----CFSGS.DVSD-SLNSRLKPVFL..S..LSAPLF.SFS.G.TYR-----	INGVK-		66

Fig. 2A

1	TVEVFLKKDLLNDLLTGIKDNT-----NFNIKYPYENNRLGFSGIFGYYYNKNFRIESELSESYETFIKNNNG	127
2	RSTIPHMVQSAQGT.PPEALEELADGKFPEGYLY.T.P...T.KK.L.L.AG.VI..S-TTH..V.V.AF.DK.NLTAPA	148
3	----I..A.ITA.TKFDTL.E.FSFSPL-----HQTDS.KS-.Q.DL..IGLSV.L-FV.S...F.GA.KN.NT.RLA	128
4	-----SSEEFKKIKANLN.ILKSNA-----LQFQD.TTS...TI..-FS.GL.L.A.GC.QE.NV..SN	130
5	V.DLI..TT.VTYIT-----EHILRDNT-----K..TH.IAKFK..FIN..SAI...SQGP.L.I.S..GD.DVV.YK	131
6	.IQLV.Y..SASSI-----DPNTYS-----..QGP.TVTFQD.AAS..AI..S.PESL.L.L.G..K.DV.DPK	130
7	.K.LL.A..IKSIT-----DITTNK-----K..P..TKFQD.AVS..AAV..ISQDSP.V.V.W..E.DV..P.	132
8	NIQLI..RHNAISTS-----LNINT-----D..P.KVTFQ..ITS...AI..SDPTGA.F.L.G..E.DVTD.P.	128
9	.TQLV.....ISVIG-----NSNITTYT-----FP.IAEFQD.AIS...AI..L.SE....V.A..E.DV..PE	133
10	.KILIA...INSLEVNADASQGISHPG-----T.P.IAAF.D.AFN.N.AI..-ITEGL...I.G..E.DA..P.	135
11	.QQLVA...IDSVDISTNA.SGINNPQ-----T.P.I.KFQD.AAS...AL.FF.ARGL.L.M.G..E.DV..P.	136
12	.KYLAA...INSVEFDDSVTAGISYPL-----STP.IAVFQD.ISN.N.AI..TFVEGP...I.G..E.DV.DP.	137
13	.KQLIA...INSVAVGSNATTGISNPG-----T.P.TAEFQD.VAN.N.AV..SFPDSL...I.GFH.K.DV..P.	137
14	.KK.....GD.AQSANFNRT-----DPALEFQN---LIS...SI..AM-DGP..L.AA.QK.DA..PD	135
15	.ALY...Q.WNG-VSASSHADADFNNK-----GYSF..EN---PF...A.AI..SM-GGP..F.V....DV..Q.	130
16	.G...IEQ.WDRCVISRTLSDFITVP-----YSF..EN---LFS..A.AI..SM-DGP..L.V...A.DV..Q.	131
17	.ALY...Q.WEG-ISSSHNDNHFNK-----GYSF..EN---PF...A.AI..SM-GGP.V.F.V....DV..Q.	130
18	.IG....Q.WDGSTISKNSPENTFNVP-----YSF..EN---PF...A.AV..LM-NGP...L.M....DV..Q.	131
19	.G....Q.NWDGSAISNSSP.DVFTVS-----YSF..EN---PF...A.AI..SM-DGP..L.V....DV..Q.	130
20	.KSI.A.GL.-----KSS.S.HAGFTQA-----Y.PT.AS---FA..G.VI...V-ND..V.F.GA..N.EPERQ-	123
21	.DR.V...S.---I..DAD.AMKDFNNF-----SEE.V.K.D..IF.L.F...SFRN-L.V.L.G..KK.DVIDTR	136

Fig. 2B

1	--YKRI-DCEKHFALAKEISGGSNNPANNK-----YVTLINNGISLTSALINVCYDVVDGLKHN-IITYSCL	189
2	G-.LH-KNFY...TTMDTKHPHQAEDK-----YMK.T.T.SPFI..A...FILK.TRNVP.L..	213
3	-R..S-K.GY.Y..IPRKSEH.FLDNT-----FG.TVAK....II.NI..L.SETKYKS--FTP.I.I	188
4	N-SLI.SSN-.YHSRIHDEN-----AITT..KL.IA.IMV.T...ISINNTS-.VP.L.T	183
5	N-.A-VQ.VNRY...VR.KN.SNFS.KPHETSPDSNPKKSF-.TLMK...VFVA.VI..G...FSFNNTT-.SP.V.I	207
6	D-.S-AK.AFRF...RNT.T--TV.DAQ.-----Y--TVMK...L.VA.IM..G...LSFNILV-VSP.I.A	191
7	N-.V-VSEAFRYI...RG.DNLQY.ET.-----Y--VIK...L.VA.II..G...FSLNNLK-VSP.I.V	195
8	D-CL-.K.TYRY...RNP...--SS.TS.N-----Y--TVMR.D.V.I..VIF.G...IFLKDLE-VSP.V.V	189
9	G---SAT.AYRY...RAMD.T-----KSSPD--DTRKF-----TVMR.D.L.IS.VM..G..NFTLDDIP-VVP.V.A	197
10	G-.G-LN.AFRY...RDMESNKFQ.KAQSSQ-----KVF-HTVMKSD.L.II.IMG.GW..FSSDNLL-VSP.I.G	203
11	G-.TKVK.AYRY...R.MQS.QTC.KHKETS--GIOPHGIY-HTVMR.D.V.IS.VI..G..NFTLSNLP-.SP.M.V	210
12	R-.TE.Q.AYRY...RD.DSIPTS.K.RTSHD--GNSSYKVY-HTVMK.E.L.II.IMV.G...FSSDNLS-.LP.V.G	212
13	G-.TQVK.AYRY...RDLKD.FFE.KAEDTG-----VY-HTVMK.D.L.IL.TMV....FSVDELP-VLP.I.A	205
14	NNDTNSG.YY.Y.G.SR.DAIADK-----K-----V.K.E..TFM.LMV.T...ITAEGVP-F.P.A.A	195
15	GN..NDAH--RYC...DRKA.ST--N.TASH-----L.K.E.LLDI.LML.A...VSEGIP-FSP.I.A	191
16	NN..NEAH--RYY...SHLLGTETQIDGAGSA-----S.F...E.LLDK.FML.A...ISEGIP-FSP.I.A	195
17	NN..NDAH--RYC...GQQDNS.---IPKTSK-----L.KSE.LLDI.FML.A...IINESIP-LSP.I.A	191
18	NN..NDAH--YY...TH--NS.GKLSNAGDK-----F.F.K.E.LLDI.LML.A...ISEGIP-FSP.I.A	193
19	NN..NEAH--RYC...SH--NSAADMSSASNN-----F.F.K.E.LLDI.FML.A...V.EGIP-FSP.I.A	192
20	-W.PEGGESH.F...SR.STVQD.-----K-----FIV.E.D.VIDK.LNV.F...IAHGSIP-LAP.M.A	182
21	NHL--VDNNYR.I..VR-----SNPPTLYD.FV.K.D.VEFY.TIL.I...FAVDT--.VPF..V	193

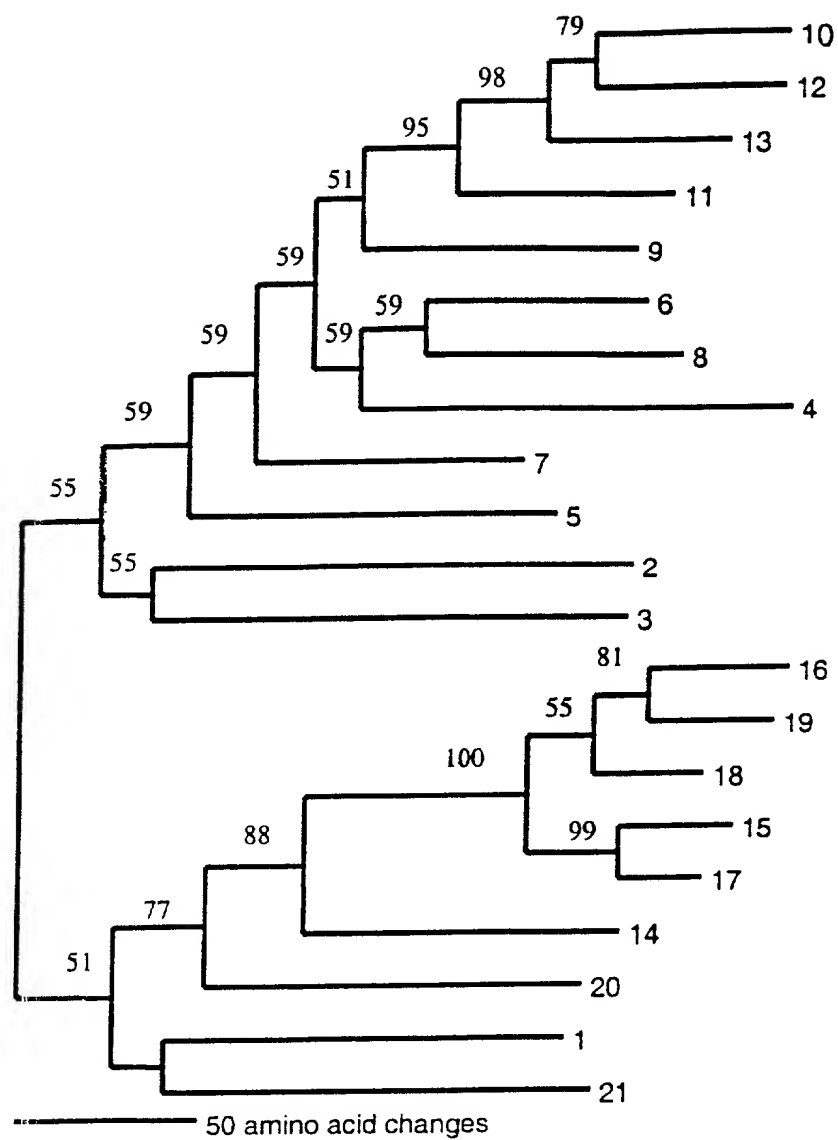
Fig. 2C

1	GFGVDTIDFLSKYTTKFSYQKLGASYTVSPQSVFIEGYHGLFGKKEKIPVNYPCDYPSPPTPP--NSKPHVHTTALA	267
2	.V.GNF...DQVSF..A..A.V.I..F...NIAF..D.SF..HLNNQ.SDS...--V..-----SSSGFP..IS.	280
3	.V.G.F.EIFDVMRI..A...V.V..PITSKLILS.N.Q..KVI.N...LL..YQ.VELKRLVTNKTSDKIDQDV..SL	268
4	.I.E.LVGLFNTIHF.LA...V.M..LINNNILL.SDI...KVM.NR..KNLY-----MQYVAD--PNISEETIPI..	254
5	.V.G.F.E.FEVMHI..AC.S.V.I..PI..SITI.ADAH..KVINN..NNLH-----VKYSYE--LKNSPTI.S.T.	278
6	.I.E.F.E.FDTLHI.LA...I..YFF.KIN..AG...RVI.N..KNLN-----VNHVVT--PDEFPKA.S.V.	262
7	..G.I.E.F.AVSF..A...V.I..PLFSNMII.AD...KVI.N..NNLN-----VQHVVVS--LNSHPKS.F.V.	266
8	.V.G.F.E.FDALHI.LA...IN.HL.T.A...D...KVI.NQ..NNLN-----VQHVAS--TDFGP--VY.V.	258
9	.I.G.F.E.FNDLHV..AH...V.I..SI..E..L.LN...KVT.NR..KNLH-----VQHVSD--L.DAPKF.S.V.	268
10	.I...A.E.FDALHI.LACPS...IT.QL.YNI.L.AV.F..QVI.NQ..RNLN-----VQHVAE--LNDAPKV.S.V.	274
11	.M.I.A.Q.FDSLHI..AH.S...IT.PL.SN.HL.ADS...KVI.N..KNLR-----VQHVE--LQVVPKV.S.V.	281
12	.I..NA.E.FDALHV..AC...IT.PL.SN..L.AG...QVM.NQ..KNLN-----VQHVAE--LNDAPKV.S.V.	283
13	.M.INA.E.FDALHV..A...I..QLFTK.NL.LD...QVI.NQ..KNLN-----VNHVYT--LKESPKV.S.V.	276
14	.V.A.L.NVFKDFNL.....I.I..PIT.E..A..G...VI.NN.N...-----IT.VVL--EGA.QTTS--..V	266
15	.V.T.L.SMFEAINP.I.....L..SIN.EA...VG.HF.KVA.NE.RD.ST-----LKAFAF--P.SAATPDL.TV	263
16	.I.I.LVSMFEAINP.I.....L..PI..EA...G.HF.KVI.NE.RD..T-----MI.SES--ALAGKNYP.IV	267
17	.V.T.L.SMFEATNP.I.....L..SIN.EA...G.HF.KVI.NE.RD..T-----LKAFTV--S--ATPDL.IV	261
18	.V.T.L.SMFEAINP.I.....L..SI..EA...VG.HF.KVI.NE.RD..A-----MI.STS--TLTGN-.F-TIV	263
19	.I.T.LVSMFEATNP.I.....L..SI..EA...G.HF.KVI.NE.RD..T-----II.GS--TLAGKNYP.IV	264
20	.V.A.Y.K..GISLP.....V.F.VN.P..VN.ML.GG...KVI.NRY.RVEI-----AYHPAT--LTNVPKT.S.S.	254
21	.I.E.I.KIFDSIRF.P.FNS...IN.LM.QDMLL.FDV...RVV.NEYNN...Q.-----V--SLPNPLNISTA.	262

Fig. 2D

1	MLSIGYYGSGIGIKFI--L	284	(SEQ	ID NO.	1)
2	KFNANFLTS...R...-S	297	(SEQ	ID NO.	2)
3	T.NLEHFSSE..LS..F	285	(SEQ	ID NO.	3)
4	K.D...F.SE...R.MFN	272	(SEQ	ID NO.	4)
5	K.N.E.F..EV.MR...F	295	(SEQ	ID NO.	5)
6	T.NVA.F..EA.V..TF	279	(SEQ	ID NO.	6)
7	T.NVE.F.SEF.L...F	283	(SEQ	ID NO.	7)
8	T.N...F..E...RLTF	275	(SEQ	ID NO.	8)
9	T.NV..F..E..VR..F	285	(SEQ	ID NO.	9)
10	T.NV..F.AEV.VR..F	291	(SEQ	ID NO.	10)
11	T.D...F..EV.VR..L	298	(SEQ	ID NO.	11)
12	T.D...F..E..ARL.F	300	(SEQ	ID NO.	12)
13	T.D.A.F..EV..R.TF	293	(SEQ	ID NO.	13)
14	TIDT..F..EV.VR.TF	283	(SEQ	ID NO.	14)
15	T..VCHF.VEL.GR.NF	280	(SEQ	ID NO.	15)
16	T.DVF.F.IEL.GR.NFQ.	286	(SEQ	ID NO.	16)
17	T..VCHF.IEL.GR.NF	278	(SEQ	ID NO.	17)
18	T..VCHF.VEL.GR.NF	280	(SEQ	ID NO.	18)
19	I.DVCHF.IEL.GR.AF	281	(SEQ	ID NO.	19)
20	T.DTD.F.WEV.MR.T--.	271	(SEQ	ID NO.	20)
21	K.DME.F.AE...-VF-V	279	(SEQ	ID NO.	21)

Fig. 2E



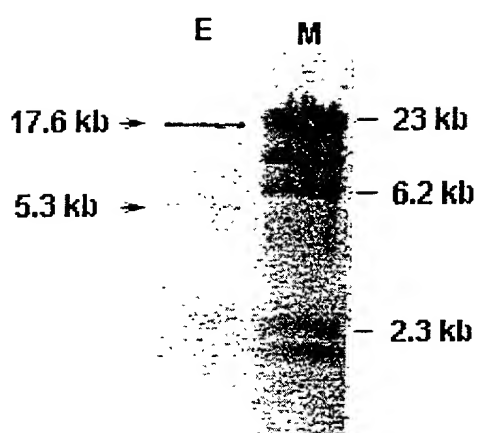


Fig. 4

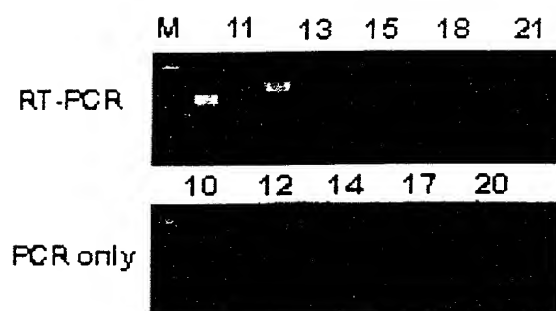


Fig. 5



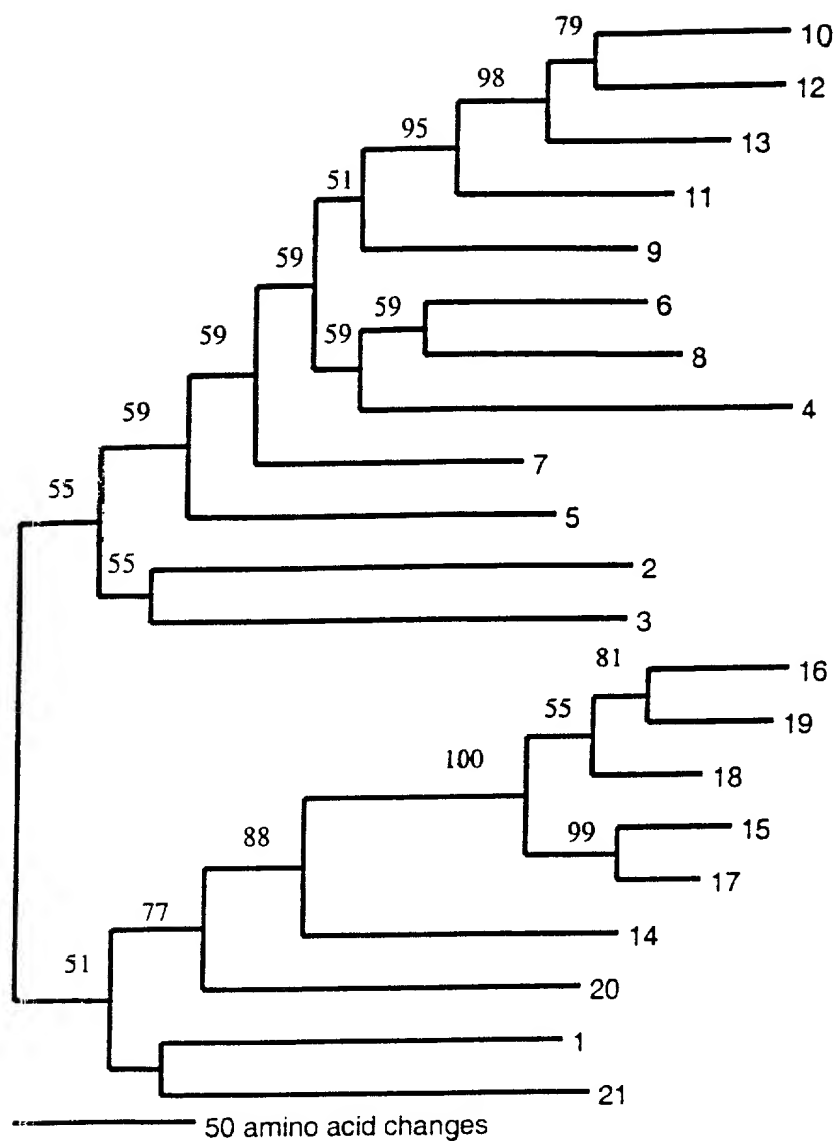


Fig. 3

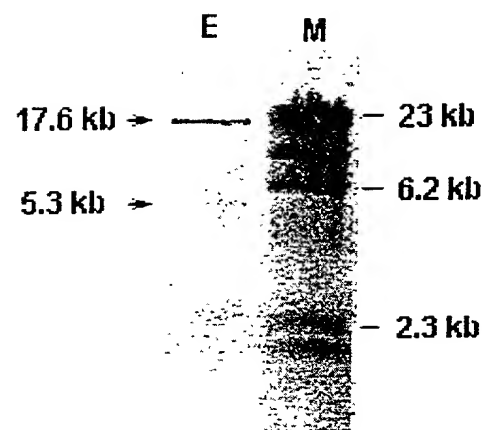


Fig. 4

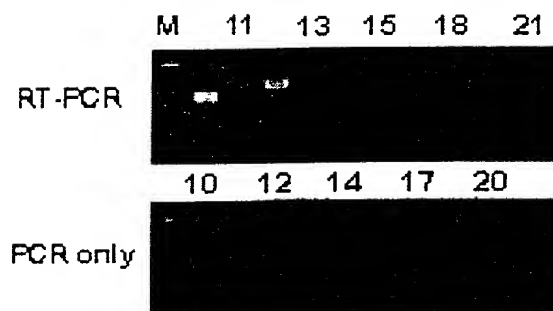


Fig. 5